Quick Start Guide
POWERSCAN D8590 Handheld DPM Imager

DATALOGIC™

Step 1 — Check Required Hardware

Parts List for USB POWERSCAN D8590:

1. One POWERSCAN D8590 Handheld DPM Imager
2. One 12 ft. USB cable (pre-attached to imager)

Parts List for RS-232 POWERSCAN D8590:

The RS-232 cable is affixed to the handle with two screws, a spacer, and a cable clip, which can be removed.

1. One POWERSCAN D8590 Handheld DPM Imager
2. Cable clip attachment
3. Spacer
4. Two threaded screws
5. RS-232 Interface Kit
   - 8 ft. coiled RS-232 cable
   - Power supply (U.S. Euro, or UK)

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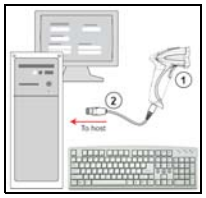
Step 2 — Set Up Hardware (USB)

Note: The USB interface draws its power from the host.

Hardware for USB

1	POWERSCAN D8590 DPM Imager, USB	PD8590-DPM
2	USB Cable	Included

Installation Steps for USB



USB Configuration

1. Connect the USB cable to the host.
2. Open any program in your host computer that can receive keyboard text, such as Notepad.
3. Read the **Reset to USB Factory Defaults** symbol below.
   Note: If you want symbol data to be entered as keyboard text, read the **USB Keyboard Mode** symbol below.
4. Read the **Save Settings** symbol below.

M049_03 ***Reset to USB Factory Defaults***

M134_02 ***USB Keyboard Mode***

Test Symbol

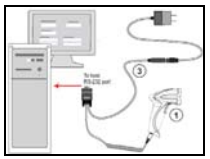
M188_02 ***Save Settings***

Step 2 — Set Up Hardware (RS-232)

Hardware for RS-232

1	POWERSCAN D8590 DPM Imager, RS-232	PD8590-DPM
3	Kit, RS-232, 8' coiled, US power supply	CAB-532-KUS
	Kit, RS-232, 8' coiled, EU power supply	CAB-532-KEU
	Kit, RS-232, 8' coiled, UK power supply	CAB-532-KUK

Installation Steps for RS-232



RS-232 Configuration

1. Power-off host.
2. Connect 8-pin mini-DIN on cable to POWERSCAN D8590.
3. Connect 9-pin D-sub connector to host's serial port.
4. Connect cable to power supply.
5. Plug in power supply and power-on host.
6. Start a terminal program (such as **Datalogic ESP**'s **Terminal** or HyperTerminal) and set to **57.6K** baud, **8** data bits, **none** parity, **2** stop bits.
7. Read the **Reset to RS-232 Factory Defaults** symbol, then the **Save Settings** symbol.

M418_02 ***Reset to RS-232 Factory Defaults***

Test Symbol

M188_02 ***Save Settings***

Step 3 — Install ESP

Click on the ESP icon to run Datalogic ESP.

Note: Datalogic ESP can be installed from the **Support Area** at **www.adc.datalogic.com**.

Minimum System Requirements

- 166 MHz Pentium processor (Pentium II processor recommended)
- Windows Vista, XP, or 2000 operating system
- Internet Explorer 5.0 or higher
- 64 MB minimum RAM (128+ MB RAM recommended)
- 80 MB hard drive space
- 800 x 600 minimum 256 color display (1024 x 768 32-bit color recommended)

Important: The imager must be in USB or RS-232 Mode to connect to **ESP**. Read the symbol below that corresponds with your communication interface, and then read the **Save Settings** symbol.

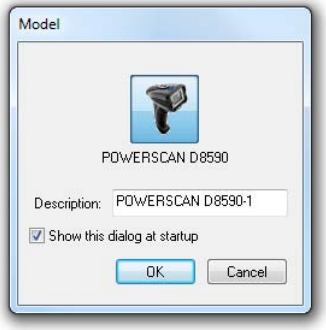
USB Mode

RS-232 Mode

M188_02 ***Save Settings***

Step 4 — Select Model

When you start **ESP**, the model menu will appear.

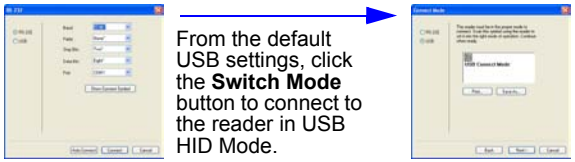


1. Click the POWERSCAN D8590 button and then click **OK**. If you do not want to make this selection every time you start **ESP**, uncheck "Show this dialog at startup".
2. Select the default imager name (**POWERSCAN D8590-1**), or type a name of your choice in the **Description** text field and click **OK**.
3. Click **Yes** when this dialog appears:

Step 5 — Select Protocol

Select the communications protocol you are using and click **Next**.

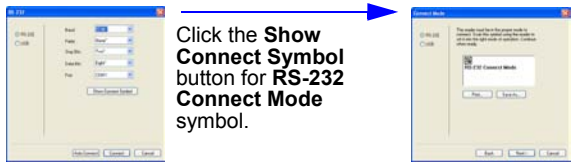
USB



From the default USB settings, click the **Switch Mode** button to connect to the reader in USB HID Mode.

1. Print **USB Connect Mode** symbol (also shown in **Install Datalogic ESP** step) and decode it with the imager to ensure that you are in the correct communications mode. Keep printed symbol in a convenient place for future use.
2. Click **Next** when you are finished, and then click **Connect** when you see the "Reader ID" number in the **Select Device** field.

RS-232



Click the **Show Connect Symbol** button for **RS-232 Connect Mode** symbol.

Select **RS-232** and click the **Show Connect Symbol** button. Print the **RS-232 Connect Mode** symbol and decode it to ensure that you are in the correct communications mode. Keep the printed symbol in a convenient place for future use. Click **Next** to return to the **RS-232** dialog. Configure RS-232 settings and COM port and click **Connect**.

Step 6 — Connect to ESP

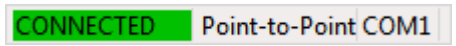
USB

Once you have clicked **Connect** in the USB imager ID dialog (**Step 5**), the **CONNECTED** message will appear in a green box in the status bar at the bottom right of the screen.

You are now ready to configure the USB POWERSCAN D8590 using **Datalogic ESP**.

RS-232

Once you have selected RS-232 settings and COM port and clicked **Connect**, the **CONNECTED** message will appear in a green box in the status bar at the bottom right of the screen.



You are now ready to configure the RS-232 POWERSCAN D8590 using Datalogic **ESP**.

Step 7 — Configure the Imager

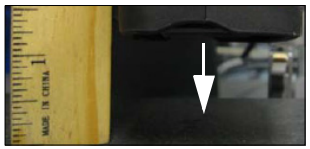
Datalogic ESP's **EZ Mode** is the first view that appears once you are connected. This view features simple instructions and tools for decoding symbol data and capturing images.

From here, you can click on **App Mode** to access tree controls and graphic user interfaces with more comprehensive configuration options.

Step 8 — Practice Decoding

The POWERSCAN D8590 features simple blue targeting LEDs to indicate optimal read range.

1. Hold the imager about 6" from the mark and align the blue targeting pattern as shown here.



2. Move the front of the imager steadily downward toward the mark and parallel to the mark surface.
3. The imager will decode the mark at the optimal read distance – typically from the point of contact to .50" (contact – 12.70 mm).

Test Symbol

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Frequently-Used Settings

The following programming symbols allow you to control **USB Keyboard Mode**, **Targeting** settings, and **Beep and Vibration** settings.

M134_02 ***USB Keyboard Mode***

M734_01 ***Targeting LED On (Default)***

M735_01 ***Targeting LED Off***

M107_01 ***Vibrate On / Beep On (Default)***

M109_01 ***Vibrate On / Beep Off***

M108_01 ***Vibrate Off / Beep On***

M188_02 ***Save Settings***

Illumination Quick Setup

The following programming symbols allow you to set up and control **Dot Peen Enhanced** illumination settings.

Q044_01 ***Illumination Default Mode***

Q045_01 ***Dot Peen Enhanced Illumination Mode - Large Mark***

Q046_01 ***Dot Peen Enhanced Illumination Mode - Medium Mark***

Q047_01 ***Dot Peen Enhanced Illumination Mode - Small Mark***

M188_02 ***Save Settings***